

MARKED-UP COPY OF CLAIMS:

25. The aerosol time-of-flight mass spectrometer system according to Claim 197[17], wherein said means for analysis of said data and for generating control data of said a data acquisition and analysis unit comprises a central processing unit, first-level correlators with means for performing a first deconvolution that establishes a non-overlapping trains of data obtained from said charged particle detector means, a second-correlator with means for performing a second deconvolution and for generating signal that has an amplitude for determining, by analyzing increase or decrease of said amplitude, whether said aerosol time-of-flight mass spectrometer system approaches or departs from said source of contamination; and a third-level correlator for performing a third deconvolution for filtering out a noise from said signal and for identifying species of said particles, said first level correlators, said second-level correlator, and said third-level correlator being connected to said central processing unit, said third level correlator being located in a place selected from the group consisting of said CPU and a place beyond said CPU; said first-level correlators being connected to said random pulse modulation means.



CERTIFICATE OF MAILING BY EXPRESS MAIL

I hereby certify that the attached Supplemental Amendment with Marked-Up Copy of Claims (2 pgs.), Postcard and Return Envelope, and this Express Mail Mailing Certificate are being deposited on the date indicated below with the United States Post Office in an envelope addressed to:

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